

For teachers only

Questions: (* questions can be used for evaluation)

1. Can you identify 6 words hidden in this picture



Name:

Class:

Div:

Roll. No:



Introduction To Cryptography

Work Sheet: 08-IP-01-WS



2. You are speaking with your friend over phone and suddenly your mother enters the room. You and your friend are very good at encryption and decryption and both know the key as 3.

Encrypt the following conversation using Caesar cipher

You: Can we play cricket at three today?

Friend: Yes we can I will get my new bat

Hint:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	0	1	2	3
d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	a	b	c

3. Encrypt the following words using modulo arithmetic. Use the key size as 10

a) Work

b) School

c) Exam

Hint

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	0	1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9	0
k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	a	b	c	d	e	f	g	h	i	j